

ANSWERS

Multiple-Choice, True/False and Short-Answer

4. Select the correct answer.

1. When a cell is in a hypotonic environment, it will **swell**.
2. When a cell is in a hypertonic environment, it will **shrink**.
3. When a cell is in an isotonic environment, it will **remain the same**.
4. When a cell is in a hypotonic environment, it will **burst**.
5. When a cell is in a hypertonic environment, it will **crenate**.
6. When a cell is in an isotonic environment, it will **remain the same**.

Write your answers for questions 7-10 in the spaces below.

5. (2008-2011) Write words in the crossword to complete the sentences.

Across

1. A cell that is **hypotonic** contains more water than it needs.
2. A cell that is **hypertonic** contains more salt than it needs.
3. A cell that is **isotonic** contains the same amount of water and salt as its environment.
4. A cell that is **hypotonic** will **swell**.
5. A cell that is **hypertonic** will **shrink**.

Down

1. The **cell membrane** is a barrier that separates the cell from its environment.
2. The **cytoplasm** is the fluid that fills the cell.
3. The **nucleus** is the control center of the cell.
4. The **mitochondrion** is the organelle that produces energy for the cell.
5. The **vacuole** is the organelle that stores water and other substances.
6. The **lysosome** is the organelle that breaks down waste materials.

